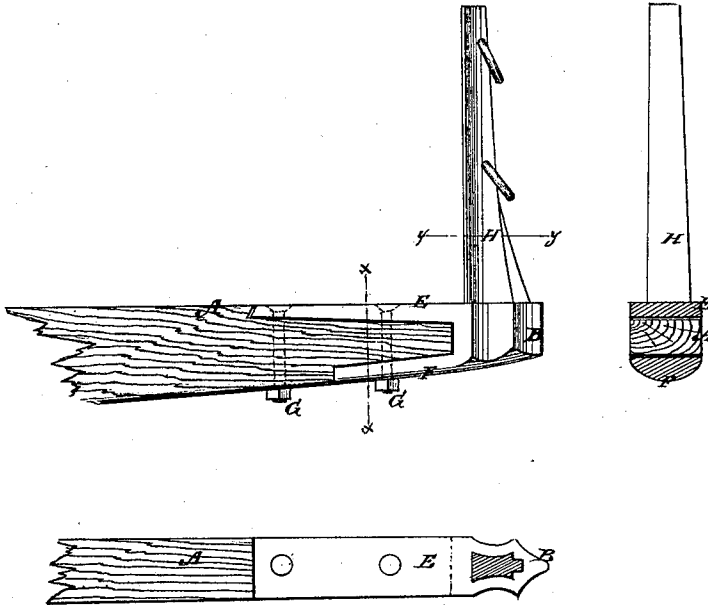


J. W. PEARMAN & J. F. C. LUTZ.
BOLSTER FOR WAGONS.

No. 109,243.

Patented Nov. 15, 1870.



Witnesses:

Geo. Nida
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JOHN W. PEARMAN AND JOSEPH F. C. LUTZ, OF HOLDEN, MISSOURI.

Letters Patent No. 109,243, dated November 15, 1870.

IMPROVEMENT IN BOLSTERS FOR WAGONS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, JOHN W. PEARMAN and JOSEPH F. C. LUTZ, of Holden, in the county of Johnson and State of Missouri, have invented a new and useful Improvement in Bolsters for Wagons; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in bolsters for wagons; and consists in ironing the ends with cast-metal attachments, cast with two leaves or plates, one for the top and the other for the bottom of the bolster, the ends of which are fitted between the ends of these leaves, and bolted to them, and the standards are cast with the solid parts at the ends.

Figure 1 is a side elevation of a part of a bolster made according to our improvement;

Figure 2 is a cross-section on the line *x x* of fig. 1; and

Figure 3 is a plan of the bolster and section of the standard.

Similar letters of reference indicate corresponding parts.

A is the wooden portion of the bolster, and B, the cast-metal part for the end, which forms a

solid metallic end, with an upper and a lower leaf or plate, E F, between which the end of the wooden part is bolted, so that the top and bottom are flush with the upper and lower surfaces of the leaves, which are secured by bolts, G.

The standards H are cast together, with solid ends B.

These bolsters have heretofore been furnished with wrought-metal plates, which are much more expensive to fit, each being hammered to the shape of the bolster.

The parts E F are cast with holes for the bolts, and the standards may have holes for the attachment of rings, by which to connect extensions when required.

By this plan the wooden part is fitted to the iron, and can be done much more quickly and cheaply.

Having thus described our invention,

We claim as new and desire to secure by Letters Patent—

The solid end B and horizontal top and bottom flanges E F, cast in one piece with the standard, to form an improved bolster-plate, as set forth.

JOHN W. PEARMAN.
JOSEPH F. C. LUTZ.

Witnesses:

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